## **ABSTRACT**

A submount that enables the reliable mounting of a semiconductor light-emitting device on it, and a semiconductor unit incorporating the submount. A submount 3 comprises (a) a substrate 4; and (b) a solder layer 8 formed on the top surface 4f of the substrate 4. The solder layer 8 before melting has a surface roughness, Ra, of at most 0.18  $\mu$  m. It is more desirable that the solder layer 8 before melting have a surface roughness, Ra, of at most 0.15  $\mu$  m, yet more desirably at most 0.10  $\mu$  m. A semiconductor unit 1 comprises the submount 3 and a laser diode 2 mounted on the solder layer 8 of the submount 3.

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